

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Tsuyoshi KITAHARA

Appln. No.: NOT YET ASSIGNED

Group Art Unit: NOT YET ASSIGNED

Confirmation No.: NOT YET ASSIGNED

Examiner: NOT YET ASSIGNED

Filed: June 29, 2001

For: PIEZOELECTRIC VIBRATOR UNIT, MANUFACTURING METHOD THEREOF,  
AND INK JET RECORDING HEAD INCORPORATING THE SAME

PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 4, ninth paragraph insert the following:

Figs. 8A and 8B are section views showing another embodiment of the present invention.

Page 4, tenth paragraph insert the following:

Figs. 9A and 9B are section views showing other embodiments of the present invention.

Page 6, third paragraph insert the following:

Figs. 3A-3B show an embodiment of the method of manufacturing the piezoelectric vibrator unit.

A green sheet 32 of a piezoelectric material and having a predetermined thickness is prepared. In the green sheet, through holes 30a and 31a are opened in the vicinity of both ends thereof so as to coincide with the arrangement pitch of the piezoelectric vibrators (Fig. 3A). On the surface of the sheet, a strip-like non-conductive region 33 is formed in a region which is nearer to a center portion than the through